

AMENDMENT TO CLAIMS

1 (original). A method of identifying the type of discharge lamp, characterized in that it comprises the steps of

- applying an amplitude-modulated control current to a discharge lamp,
- detecting the peak value of the lamp voltage at a rising edge of the envelope of the modulated control current, and
- comparing the detected peak value with previously recorded peak values for different lamp types, and
- assigning the detected peak value to a lamp type on the basis of said comparison.

2 (currently amended). A device for identifying the type of discharge lamp, said device comprising: ~~carrying out the method as claimed in claim 1, which comprises~~

means for supplying a control current to a discharge lamp, ~~is characterized by the presence of~~

- means for amplitude ~~[[-]]~~ modulating the control current to the lamp,
- peak detection means for detecting the peak voltage across the lamp at a rising edge of the envelope of the ~~amplitude~~ ~~[[-]]~~ modulated control current,
- recording means for recording peak voltages associated with lamp types and
- means for comparing the measured peak voltage with the recorded peak voltages and supplying a lamp type-indicating signal on the basis of said comparison.

3 (original). A device as claimed in claim 2, wherein the means for supplying a control current to the lamp are formed by a source of a comparatively high-frequency square-wave voltage supplying, via a series-resonance chain, a corresponding control current to the lamp, characterized in that means are present for square-wave frequency modulating said comparatively high-frequency square-wave voltage.

4 (original). A device as claimed in claim 2, wherein the means for supplying a control current to the lamp are formed by a source of a comparatively high-frequency square-wave voltage supplying, via a series-resistance chain, a corresponding control current to the lamp, characterized in that means are present for square-wave pulse width modulating said comparatively high-frequency square-wave voltage.

5 (original). A device as claimed in claim 2, wherein the means for supplying a control current to the lamp are formed by a source of a comparatively high-frequency square-wave voltage supplying, via a series-resonance chain, a corresponding control current to the lamp, and wherein said source of a comparatively high-frequency square-wave voltage is fed with a direct voltage from an AC/DC converter, characterized in that means are present for square-wave amplitude-modulating the direct voltage supplied to said source of a comparatively high-frequency square-wave voltage.